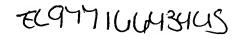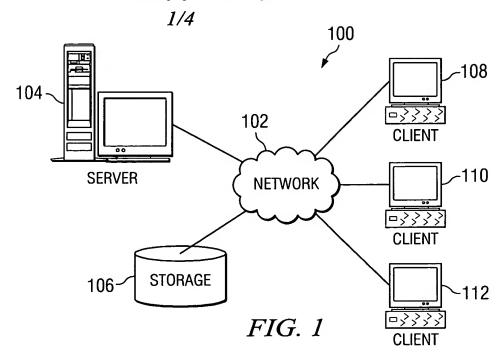AUS920030796US1
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EL9771664314S

SERVER

104

102 NETWORK

100

108 CLIENT

110 CLIENT

112 CLIENT

106 STORAGE

FIG. 1

202 PROCESSOR

204 PROCESSOR

206 SYSTEM BUS

200

208 MEMORY CONTROLLER/ CACHE

210 I/O BRIDGE

209 LOCAL MEMORY

214 PCI BUS BRIDGE

216 PCI BUS

218 MODEM

220 NETWORK ADAPTER

212 I/O BUS

230 GRAPHICS ADAPTER

222 PCI BUS BRIDGE

226 PCI BUS

232 HARD DISK

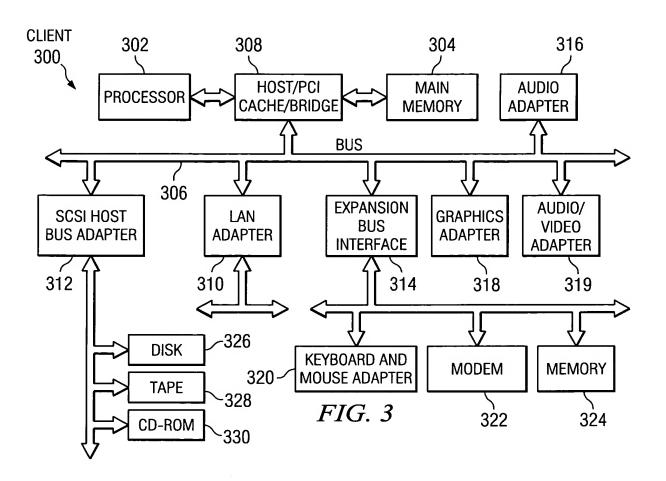224 PCI BUS BRIDGE

228 PCI BUS

FIG. 2

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CLIENT
300

PROCESSOR 302

HOST/PCI CACHE/BRIDGE 308

MAIN MEMORY 304

AUDIO ADAPTER 316

BUS

306

SCSI HOST BUS ADAPTER 312

LAN ADAPTER 310

EXPANSION BUS INTERFACE 314

GRAPHICS ADAPTER 318

AUDIO/ VIDEO ADAPTER 319

DISK — 326

TAPE — 328

CD-ROM — 330

KEYBOARD AND MOUSE ADAPTER 320

MODEM 322

MEMORY 324

FIG. 3

IMAGE FILE 410

INSTANT MESSAGING CLIENT 400

INSTANT MESSAGING SERVER PROCESS 404

FIG. 4

IMAGE FILE 412

INSTANT MESSAGING CLIENT 402

USER DATABASE 406

IMAGE DATABASE 408

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502 — MESSAGE

504

DIALOG
WINDOWS

INSTANT
MESSAGING
APPLICATION
500

FIG. 5

CONTACT AND
CONTROL
WINDOW

506

510 — IMAGE
FILE

CONTACT
LIST — 508

600

Picture — 606

John: Is the report complete?
Steve: no

602   604

Send it |

FIG. 6

START

700 — RECEIVE USER INPUT
FOR MESSAGE

702

MESSAGE
COMPLETE? — NO

YES

704

SEND
IMAGE? — NO

YES

706 — ATTACH IMAGE TO MESSAGE

708 — SEND MESSAGE

END

FIG. 7

START

800 — RECEIVE MESSAGE

802

IMAGE
ATTACHED?

YES

NO

IMAGE
FOR SENDER IN LOCAL
CACHE?

NO

806

YES

804 — DISPLAY IMAGE AND
MESSAGE IN WINDOW

DISPLAY MESSAGE
IN WINDOW — 808

END

FIG. 8

START

900 — RECEIVE REQUEST
FOR CONTACT

902

IMAGE
OF SENDER IN IMAGE
DATABASE?

NO

YES

904 — ATTACH IMAGE
TO MESSAGE

906 — SEND MESSAGE
TO RECIPIENT

END

FIG. 9

START

1000

SMILEY
PRESENT IN TEXT
?

NO

YES

1002 — SELECT
PICTURE BASED
ON SMILEY

SELECT
DEFAULT
PICTURE

1004

END

FIG. 10